

IN THE CLAIMS

Please amend Claims 1, 12, 14 and add Claims 32-38.

1. (Currently Amended) A power converter, comprising:
a housing;
a first circuit having a first voltage input disposed in the housing converting an AC input voltage to a first DC voltage;
a second circuit having a second voltage input electrically isolated from the first voltage input and disposed in the housing converting a DC input voltage to a second DC voltage;
a third circuit disposed in the housing receiving the first and second DC voltages and generating a first DC output voltage at a first output; and
wherein the first circuit and the second circuit receive the respective AC input voltage and DC input voltage at a common single connector being integral to the housing and adapted to separately couple to a DC input cord and an AC input cord.

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10. (Previously Amended) The power converter of Claim 1 comprising a fourth circuit coupled to said first output and providing a second DC output voltage at a second output, wherein said second DC voltage output is independent of, and substantially lower than said first DC output voltage.

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12. (Currently Amended) ~~The power converter of Claim 1~~ A power converter,
comprising:

a housing;

a first circuit disposed in the housing converting an AC input voltage to a first DC
voltage;

a second circuit disposed in the housing converting a DC input voltage to a
second DC voltage;

a third circuit disposed in the housing receiving the first and second DC voltages
and generating a first DC output voltage at a first output; and

wherein the first circuit and the second circuit receive the respective AC input
voltage and DC input voltage at a common single connector being integral to the housing and
adapted to separately couple to a DC input cord and an AC input cord;

wherein said second circuit comprises a DC-to-DC boost converter, wherein said DC-to-DC boost converter is adapted to provide the second DC voltage of between 15VDC and 24VDC.

13. (Previously Amended) The power converter of Claim 10 wherein said fourth circuit comprises a DC-to-DC buck converter providing said second DC output voltage, said DC-to-DC buck converter providing said second DC output voltage of between 3VDC and 15VDC.

14. (Currently Amended) ~~The power converter of Claim 1~~ A power converter,
comprising:
a housing;
a first circuit disposed in the housing converting an AC input voltage to a first DC
voltage;
a second circuit disposed in the housing converting a DC input voltage to a
second DC voltage;
a third circuit disposed in the housing receiving the first and second DC voltages
and generating a first DC output voltage at a first output; and
wherein the first circuit and the second circuit receive the respective AC input
voltage and DC input voltage at a common single connector being integral to the housing and
adapted to separately couple to a DC input cord and an AC input cord;
wherein said first DC output voltage is established via a removable program
module, wherein said removable program module comprises a key adapted to be removably
coupled to said power converter.

15. (Previously Amended) The power converter of Claim 14 wherein said removable
program module comprises a key having a resistor, wherein said first DC output voltage are a
function of the value of said resistor.

16. (Previously Amended) The power converter of Claim 14 wherein said key
establishes an output voltage function.

17. (Previously Amended) The power converter of Claim 14 wherein said key
establishes an output current limiting function.

18. (Previously Amended) The power converter of Claim 1 wherein said first circuit
is adapted to receive the AC input voltage having a range of 90VAC to 265VAC.

19. (Previously Amended) The power converter of Claim 1 wherein said second circuit is adapted to receive the DC input voltage having a range of 11VDC to 16VDC.

20. (Previously Amended) The power converter of Claim 10 wherein said first and second DC output voltages are programmable as a function of a removable program module.

21. (Previously Amended) The power converter of Claim 10 wherein said fourth circuit comprises a removable program module, wherein said second DC output voltage is a function of said removable program module.

22. (Previously Amended) The power converter of Claim 10 further comprising a fifth circuit including a protection circuit providing an over-voltage protection function.

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32. (New) A power converter, comprising:
a first circuit having a first voltage input converting an AC input voltage to a first DC voltage;
a second circuit having a second voltage input electrically isolated from the first voltage input and converting a DC input voltage to a second DC voltage;
a third circuit receiving the first and second DC voltages and generating a first DC output voltage at a first output; and
wherein the first circuit and the second circuit receive the respective AC input voltage and the DC input voltage via a common interface including the first voltage input and the second voltage input.

33. (New) The power converter of Claim 32 wherein the common interface includes a plurality of conductors each electrically isolated from one another.

34. (New) The power converter of Claim 32 wherein said first DC output voltage is established via a removable program module, wherein said removable program module comprises a key adapted to be removably coupled to said power converter.

35. (New) The power converter of Claim 34 wherein said removable program module comprises a key having a resistor, wherein said first DC output voltage are a function of the value of said resistor.

36. (New) The power converter of Claim 32 comprising a fourth circuit coupled to said first output and providing a second DC output voltage at a second output, wherein said second DC voltage output is independent of, and substantially lower than said first DC output voltage.

37. (New) The power converter of Claim 36 wherein said fourth circuit comprises a DC-to-DC buck converter providing said second DC output voltage, said DC-to-DC buck converter providing said second DC output voltage of between 3VDC and 15VDC.

38. (New) the power converter of Claim 32 wherein said second circuit comprises a DC-to-DC boost converter, wherein said DC-to-DC boost converter is adapted to provide the second DC voltage of between 15VDC and 24VDC.